BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE WORK :- IMPROVEMENTS TO ROADS, DRAIN AT SAMPIGEHALLI AND ROYAL ENCLAVE IN WARD NO.08 JAKKUR

Sl.no	Discription of items	No	L	B	D	Qty
	PRE MEASUREMENT					
1	Earth work excavation by manual means for **drains,canals, waste weir, draft, approach channels,**					
	Pre Measurement Recorded on:					
	For RCC Drain at Main rd R/side Royal Enclave Rds					
		1	30.00	1.20	1.10	39.60
		1	30.00	1.20	1.20	43.20
		1	13.00	1.20	1.10	17.16
		1	30.00	1.20	1.20	43.20
		1	30.00	1.20	1.20	43.20
		1	3.00	1.20	1.10	3.96
		1	30.00	1.20	1.20	43.20
		1	30.00	1.20	1.20	43.20
		1	6.00	1.20	1.20	8.64
	L/side	1	30.00	1.20	1.20	43.20
		1	30.00	1.20	1.15	41.40
		1	30.00	1.20	1.15	41.40
		1	12.00	1.20	1.10	15.84
		1	21.00	1.20	1.20	30.24
		1	24.20	1.20	1.20	34.85
	Cross rd L/Side 115.00 L/side	1	30.00	1.20	1.10	39.60
	R/ side	1	30.00	1.20	1.20	43.20
		1	30.00	1.20	1.00	36.00
		1	25.00	1.20	1.20	36.00
	R/ side	1	30.00	1.20	1.10	39.60
		1	34.00	1.20	1.30	53.04
	Srirampura Main Rd. 124.30					
	From Royal Enclave Rd. to 3rd Cross Nisarga layout	1	20.30	1.20	1.20	29.23
	4th cross	1	14.20	1.20	1.10	18.74
	5th cross	1	27.10	1.20	1.20	39.02
	6th cross	1	32.70	1.20	1.20	47.09

873.82

Scanned by CamScanner

	Upto 7th Cross	1	30.00	1.20	1.20	43.20		
	L/Side 7th Cross Rd to End	1	30.00	1.20	1.00	36.00		
		1	30.00	1.20	1.20	43.20		
		1	30.00	1.20	1.10	39.60		
		1	12.00	1.20	1.00	14.40		
		1	13.00	1.20	1.00	15.60	+92	
						1065.82		
	For Culvert							
	Culvert At Royal Enclave							
		1	13.00	1.50	1.20	23.40		
		1	8.00	1.50	1.20	14.40		
		1	7.20	1.50	1.20	12.96		
		1	10.00	1.50	1.20	18.00		
		1	7.00	1.50	1.20	12.60		
	At Srirampura Main rd 3rd Cross Nisarga Layout	1	6.70	1.50	1.20	12.06		
	4th cross	1	7.50	1.50	1.20	13.50		
	5th cross	1	6.20	1.50	1.25	11.63		
	6th cross	1	6.10	1.50	1.25	11.44		
	7th cross	1	6.00	1.50	1.20	10.80		
	dead end	1	4.97	1.50	1.15	8.57		
						149.36		
						1215.18		
				Uth to Qty		1215.16		
						Cum		

22/3/23

Asst. Engineer
Ward-No.08 Byatarayanapura
B.B.M.P, Bangalore

Asst. Executive Engineer
B.B.M.P. Byatarayanapura Sub-Division
Bangalore

Contractor

Scanned by CamScanner

PRE MEASUREMENT

7 Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum.

Pre Measurement Recorded on:

Qty Vide Item no. 1 From XL Sheet Page no. 06 **1215.16**

Debris

5	6.9	1.00	0.50	17.25
1	6.9	1.00	0.40	2.76
				1235.16
				Cum

10/5/23

Asst. Engineer
Ward No.08 Byatarayanapura
B.B.M.P, Bangalore

10/5/23

Asst. Executive Engineer
B.B.M.P. Byatarayanapura Sub-Division
Bangalore

Contractor

Scanned by CamScanner

PRE MEASUREMENT

8 Cost of Haulage Excluding Loading and Unloading taking output

Pre Measurement Recorded on:

Qty Vide Item no.1 From XL Sheet Page no. 06

Density of Sand/Debris i.e. 1.28 Tonne/Cum		1215.16	1.28		1215.16	
Debries		11.40	1.28		1555.40	
					14.59	1569.99
					1570.00	
					t.km	

12/5/23

Asst. Engineer
Ward No.08 Byatarayanapura
B.B.M.P, Bangalore

Asst. Executive Engineer
B.B.M.P, Byatarayanapura Sub-Division
Bangalore

Contractor

Scanned by CamScanner

PRE MEASUREMENT

2 Providing and laying in position **plain cement concrete Mix 1:3:6 (M10)** for levelling

Pre Measurement Recorded on:

For RCC Drain at Main rd R/side Royal Enclave Rds

FOR BED CONCRETE							
	1	30.00	1.20	0.15	5.40		
	1	30.00	1.20	0.15	5.40		
	1	13.00	1.20	0.15	2.34		
	1	30.00	1.20	0.15	5.40		
	1	30.00	1.20	0.15	5.40		
	1	3.00	1.20	0.15	0.54		
	1	30.00	1.20	0.15	5.40		
	1	6.00	1.20	0.15	1.08		
L/side							
	1	30.00	1.20	0.15	5.40		
	1	30.00	1.20	0.15	5.40		
	1	30.00	1.20	0.15	5.40		
	1	12.00	1.20	0.15	2.16		
	1	21.00	1.20	0.15	3.78		
	1	24.20	1.20	0.15	4.36		
Cross Rd. L/Side115.00							
L/side	1	30.00	1.20	0.15	5.40		
R/ side	1	30.00	1.20	0.15	5.40		
	1	30.00	1.20	0.15	5.40		
	1	25.00	1.20	0.15	4.50		
R/ side	1	30.00	1.20	0.15	5.40		
	1	34.00	1.20	0.15	6.12		
Srirampura Main Rd 124.30							
From Royal Enclave Rd. to 3rd Cross Nisarga layout	1	20.30	1.20	0.15	3.65		
4th Cross	1	14.20	1.20	0.15	2.56		
5th Cross	1	27.10	1.20	0.15	4.88		
6th Cross	1	32.70	1.20	0.15	5.89		
Upto 7th Cross	1	30.00	1.20	0.15	5.40		
L/Side 7th Cross rd to End	1	30.00	1.20	0.15	5.40		
	1	30.00	1.20	0.15	5.40		
	1	30.00	1.20	0.15	5.40		
	1	12.00	1.20	0.15	2.16		
	1	13.00	1.20	0.15	2.34		
					132.75		
For Culvert Raft/Bed							
Culvert At Royal Enclave							
	1	13.00	1.50	0.15	2.93		
	1	8.00	1.50	0.15	1.80		
	1	7.20	1.50	0.15	1.62		

139.10

Contractor

Scanned by CamScanner

	1	10.00	1.50	0.15	2.25		
	1	7.00	1.50	0.15	1.58		
At Srirampura Main rd 3rd Cross Nisarga Layout							
4th cross	1	6.70	1.50	0.15	1.51		
5th cr	1	7.50	1.50	0.15	1.69		
6th cr	1	6.20	1.50	0.15	1.40		
7th	1	6.10	1.50	0.15	1.37		
dead end	1	6.00	1.50	0.15	1.35		
	1	5.00	1.50	0.15	1.13		
Culvert Ramp					**18.61**		
Culvert at Royal Enclave							
	2	13.80	1.40	0.15	5.67		
	2	8.00	1.20	0.15	2.88		
	2	7.20	1.40	0.15	3.02		
	2	10.50	1.45	0.15	4.57		
	2	7.20	1.20	0.15	2.59		
At Srirampura Main rd 3rd Cross Nisarga Layout							
	2	6.70	1.40	0.15	2.81		
	2	7.50	1.40	0.15	3.15		
	2	6.20	1.50	0.15	2.79		
	2	6.10	1.40	0.15	2.56		
	2	6.00	1.40	0.15	2.52		
	2	5.15	1.50	0.15	2.32	47.53	
					34.89		
					186.24	198.51	
					Cum		

23/3/23

Asst. Engineer
Ward No.08 Byatarayanapura
B.B.M.P, Bangalore

23/3

Asst. Executive Engineer
B.B.M.P. Byatarayanapura Sub-Division
Bangalore

Contractor

Scanned by CamScanner

PRE MEASUREMENT

4 Supplying, Fitting and Placing un-coated TMT bar Reinforcement

Pre Measurement Recorded on:

Drain Bed Slab 10mm dia @15 cm c/c					
0.85+0.2+0.2=1.35					
73.00/0.15=487+1=488	488	1.35	0.62		408.5
At Royal Enclave Rd					
63.00/0.15=420	420	1.35	0.62		351.5
36.00/0.15=240	241	1.35	0.62		201.7
L/Side					
109.50/0.15=730	730	1.35	0.62		611.0
45.20/0.15=301	302	1.35	0.62		252.8
R/Side 1st cross					
115.00/0.15=767 R/side	767	1.35	0.62		642.0
L/side64.00/0.15=427	427	1.35	0.62		357.4
At sriramapura Main Rd.					
124.30/0.15=829+10=839	839	1.35	0.62		702.2
FROM 7th cross 112.20/0.15=748	748	1.35	0.62		626.1
For side walls 10mm dia @15cm C/C					
73.00/0.15=487+1=488	2	488.00	0.90	0.62	878.4
At Royal Enclave Rd					
63.00/0.15=420	2	420.00	0.90	0.62	756.0
36.00/0.15=240	2	241.00	0.90	0.62	433.8
L/Side					
109.50/0.15=730	2	730.00	0.90	0.62	1314.0
45.20/0.15=301	2	302.00	0.90	0.62	543.6
R/Side 1st cross					
115.00/0.15=767 R/side	2	767.00	0.90	0.62	1380.6
L/side64.00/0.15=427	2	427.00	0.90	0.62	768.6
At sriramapura Main Rd.					
124.30/0.15=829+10=839	2	839.00	0.90	0.62	1510.2
FROM 7th cross 112.20/0.15=748	2	748.00	0.90	0.62	1346.4

13084.80

Scanned by CamScanner

At Royal Enclave Drain Side Walls Horizontal Bars 10mm dia @ 15 cm C/C						
4+4+4=12nos	12	73.00		0.62	543.12	
	12	63.00		0.62	468.72	
	12	36.00		0.62	267.84	
	13	102.00		0.62	822.12	
	12	45.20		0.62	336.29	
	13	115.00		0.62	926.90	
	13	64.00		0.62	515.84	
Srirampura main rd S/side from royal enclave main rd to 7th cross Side Walls Horizontal Bars 10mm dia @ 15 cm C/C						
0.60+0.60+0.60=1.80/0.15=13						
Cross Nisarga layout	13	20.25		0.62	163.22	
4th Cross	13	14.25		0.62	114.86	
5th Cross	13	27.05		0.62	218.02	
6th Cross	13	32.65		0.62	263.16	
Upto 7th Cross	14	29.95		0.62	259.97	
L/Side 7th Cross rd to End	13	29.95		0.62	241.40	
	13	29.95		0.62	241.40	
	13	29.95		0.62	241.40	
	13	11.95		0.62	96.32	
	13	5.15		0.62	41.51	
	13	12.95		0.62	104.38	
For Culvert at Royal Enclave						
For bed slab main bars 12mm dia @ 20cm C/C =1.05+0.2+0.2=1.45						
13.00/0.20=62	2	62	1.45	0.89	160.02	
8.00/0.20=40	2	40	1.45	0.89	103.24	
7.20/0.20=32	2	32	1.45	0.89	82.59	
10.00/0.20=38	2	38	1.45	0.89	98.08	
7.00/0.20=30	2	30	1.45	0.89	77.43	
CULVERTS AT SRIRAMAPURA MAIN RD						
For bed slab main bars 12mm dia @ 20 cm C/C =1.05+0.2+0.2=1.45						
6.70/0.20=30	2	30	1.45	0.89	77.43	
7.50/0.20=32	2	32	1.45	0.89	82.59	
6.20/0.20=26	2	26	1.45	0.89	67.11	
6.10/0.20=24	2	24	1.45	0.89	61.94	
6.00/0.20=28	2	28	1.45	0.89	72.27	
5.00/0.20=25	2	25	1.45	0.89	64.53	
SIDE WALL BARS at Royal Enclave						
For Side walls main bars 12mm dia @20 cm C/C						
13.00/0.20=62	4	60	0.95	0.89	202.92	
8.00/0.20=40	4	40	0.95	0.89	135.28	
7.20/0.20=32	4	32	0.95	0.89	108.22	
10.00/0.20=38	4	38	0.95	0.89	128.52	
7.00/0.20=30	4	30	0.95	0.89	101.46	

7490.07

Scanned by CamScanner

CULVERTS AT SRIRAMAPURA MAIN RD

For Side walls main bars 12mm dia @20cm C/C							
6.70/0.20=30	4	30	0.95	0.89	101.46		
7.50/0.20=32	4	34	0.95	0.89	114.99		
6.20/0.20=26	4	28	0.95	0.89	94.70		
6.10/0.20=24	4	26	0.95	0.89	87.93		
6.00/0.20=28	4	34	0.95	0.89	114.99		
5.00/0.20=25	4	26	0.95	0.89	87.93		
At Royal Enclave horizontal bars							
10mm dia @ 20 cm c/c	2	12	12.95	0.62	192.70		
	2	12	7.95	0.62	118.30		
	2	12	7.15	0.62	106.39		
	2	12	9.95	0.62	148.06		
	2	12	6.95	0.62	103.42		
At Srirampura Main Rd. horizontal bars							
	2	12	6.65	0.62	98.95		
	2	12	7.45	0.62	110.86		
	2	12	6.15	0.62	91.51		
	2	12	6.05	0.62	90.02		
	2	12	5.95	0.62	88.54		
	2	12	4.95	1.62	192.46	19.3.19	
				Kgs	22518.05		
				/1000	22.52		
					M-Tonn		

28/3/23

Asst. Engineer
Ward No.08 Byatarayanapura
B.B.M.P, Bangalore

28/3/23

Asst. Executive Engineer
B.B.M.P. Byatarayanapura Sub-Division
Bangalore

Contractor

Scanned by CamScanner

3 Providing and laying in position **Reinforced cement concrete** M20

Pre Measurement Recorded on:

FOR RCC DRAIN BED SLAB

For RCC Drain at Main rd R/side Royal Enclave Rds						
	1	30.00	1.20	0.15	5.40	
	1	30.00	1.20	0.15	5.40	
	1	13.00	1.20	0.15	2.34	
	1	30.00	1.20	0.15	5.40	
	1	30.00	1.20	0.15	5.40	
	1	3.00	1.20	0.15	0.54	
	1	30.00	1.20	0.15	5.40	
	1	6.00	1.20	0.15	1.08	
L/side						
	1	30.00	1.20	0.15	5.40	
	1	30.00	1.20	0.15	5.40	
	1	30.00	1.20	0.15	5.40	
	1	12.00	1.20	0.15	2.16	
	1	21.00	1.20	0.15	3.78	
	1	24.20	1.20	0.15	4.36	
Cross rd L/Side 115.00						
L/side	1	30.00	1.20	0.15	5.40	
R/ side	1	30.00	1.20	0.15	5.40	
	1	30.00	1.20	0.15	5.40	
	1	25.00	1.20	0.15	4.50	
R/ side	1	30.00	1.20	0.15	5.40	
	1	34.00	1.20	0.15	6.12	
Srirampura Main Rd 124.30						
From Royal Enclave Rd. to 3rd Cross Nisarga layout	1	20.30	1.20	0.15	3.65	
4th Cross	1	14.20	1.20	0.15	2.56	
5th Cross	1	27.10	1.20	0.15	4.88	
6th Cross	1	32.70	1.20	0.15	5.89	
Upto 7th Cross	1	30.00	1.20	0.15	5.40	
L/Side 7th Cross rd to End	1	30.00	1.20	0.15	5.40	
	1	30.00	1.20	0.15	5.40	
	1	30.00	1.20	0.15	5.40	
	1	12.00	1.20	0.15	2.16	
	1	13.00	1.20	0.15	2.34	
					132.75	
Drain Side Walls						
For RCC Drain at Main rd R/side Royal Enclave Rds						
	2	30.00	0.15	0.60	5.40	
	2	30.00	0.15	0.50	4.50	
	2	13.00	0.15	0.55	2.15	
					144.80	

Scanned by CamScanner

	2	30.00	0.15	0.50	4.50	
	2	30.00	0.15	0.60	5.40	
	2	3.00	0.15	0.55	0.50	
	2	30.00	0.15	0.50	4.50	
L/side	2	6.00	0.15	0.60	1.08	
	2	30.00	0.15	0.70	6.30	
	2	30.00	0.15	0.65	5.85	
	2	30.00	0.15	0.55	4.95	
	2	12.00	0.15	0.50	1.80	
	2	21.00	0.15	0.60	3.78	
	2	24.20	0.15	0.55	3.99	
Cross Rd. L/Side115.00						
L/side	2	30.00	0.15	0.70	6.30	
R/ side	2	30.00	0.15	0.65	5.85	
	2	30.00	0.15	0.60	5.40	
	2	25.00	0.15	0.55	4.13	
R/ side	2	30.00	0.15	0.65	5.85	
	2	34.00	0.15	0.60	6.12	
Srirampura Main Rd 124.30						
From Royal Enclave Rd. to 3rd Cross Nisarga layout	2	20.30	0.15	0.55	3.35	
4th Cross	2	14.20	0.15	0.50	2.13	
5th Cross	2	27.10	0.15	0.60	4.88	
6th Cross	2	32.70	0.15	0.60	5.89	
Upto 7th Cross	2	30.00	0.15	0.50	4.50	
L/Side 7th Cross rd to End	2	30.00	0.15	0.60	5.40	
	2	30.00	0.15	0.60	5.40	
	2	30.00	0.15	0.50	4.50	
	2	12.00	0.15	0.65	2.34	
	2	13.00	0.15	0.70	2.73	
					129.45	
					262.20	
For Culvert Raft/Bed						
Culvert at Royal Enclave						
	1	13.00	1.50	0.25	4.88	
	1	8.00	1.50	0.25	3.00	
	1	7.20	1.50	0.25	2.70	
	1	10.00	1.50	0.25	3.75	
	1	7.00	1.50	0.25	2.63	
At Srirampura Main rd 3rd Cross Nisarga Layout	1	6.70	1.50	0.25	2.51	
	1	7.50	1.50	0.25	2.81	
	1	6.20	1.50	0.25	2.33	
	1	6.10	1.50	0.25	2.29	
	1	6.00	1.50	0.25	2.25	
	1	5.00	1.50	0.25	1.88	
					31.01	

3148.42

Scanned by CamScanner

Side walls							
Culvert at Royal Enclave	2	13.00	0.30	0.75	5.85		
	2	8.00	0.30	0.75	3.60		
	2	7.20	0.30	0.75	3.24		
	2	10.00	0.30	0.75	4.50		
	2	7.00	0.30	0.75	3.15		
At Srirampura Main rd 3rd Cross Nisarga Layout	2	6.70	0.30	0.75	3.02		
	2	7.50	0.30	0.75	3.38		
	2	6.20	0.30	0.75	2.79		
	2	6.10	0.30	0.75	2.75		
	2	6.00	0.30	0.75	2.70		
	2	5.00	0.30	0.75	2.25		
					37.22		
Culvert Ramp					**68.23**		
Culvert at Royal Enclave	2	13.00	1.20	0.10	3.12		
	2	8.00	1.10	0.10	1.76		
	2	7.20	1.00	0.10	1.44		
	2	10.00	1.05	0.10	2.10		
	2	7.00	1.00	0.10	1.40		
At Srirampura Main rd 3rd Cross Nisarga Layout	2	6.70	0.90	0.10	1.24		
	2	7.50	1.10	0.10	1.65		
	2	6.20	1.00	0.10	1.24		
	2	6.10	0.90	0.10	1.10		
	2	6.00	0.90	0.12	1.10		
	2	5.00	1.10	0.11	1.21		
					17.36	54.58	
					347.79		
					Cum		

Asst. Engineer
Ward No.08 Byatarayanapura
B.B.M.P, Bangalore

Asst. Executive Engineer
B.B.M.P. Byatarayanapura Sub-Division
Bangalore

Contractor

Scanned by CamScanner